

BEST AVAILABLE COPY

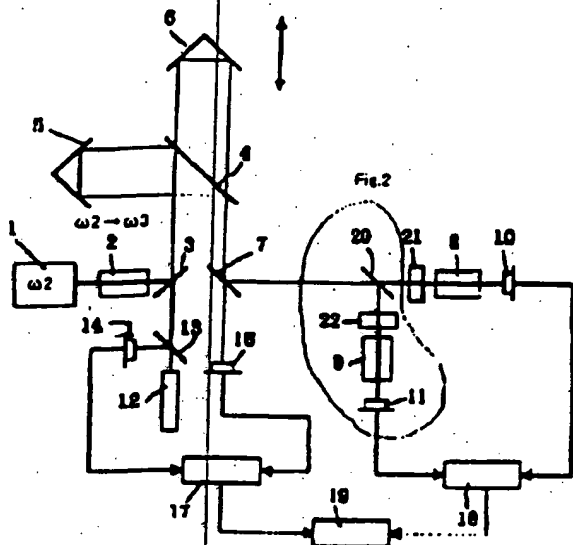
1) JP8-117083

2) Filed: Apr. 15, 1996

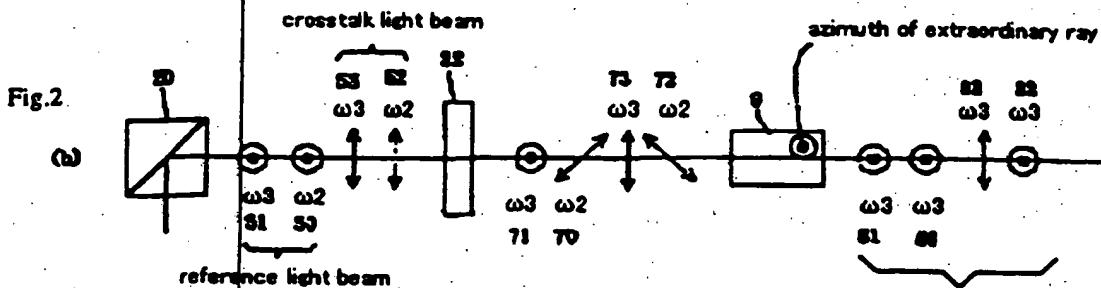
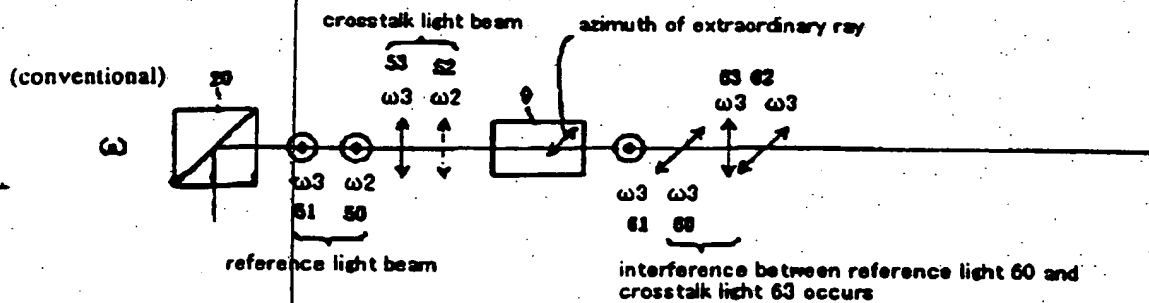
3) Inventors: Hitoshi Kawai, Jun Kawakami, Kouichi Tsukihara

4) Comment:

Reduction of crosstalk caused by light leakage at polarization beam splitter.



- 1:light source for index measurement
- 2:SHG element ($\omega_2 \rightarrow \omega_3$)
- 4:polarization beam splitter
- 5:reference path
- 6:signal path
- 12: light source to measure stage moving
(like He-Ne laser)
- 17,18: phase meter
- 19:calculator
- 20 to 11: for reference path index measurement
(refer to Fig.2)
- 20 to 10: for signal path index measurement



interference between 81 and 82 occurs, but it's negligible. because light intensity of 82 is very weak under the action of SHG element 9.

9: SHG element

20: polarization beam splitter

22: It acts like λ plate for ω_3 , but also acts like $\lambda/2$ plate for ω_2